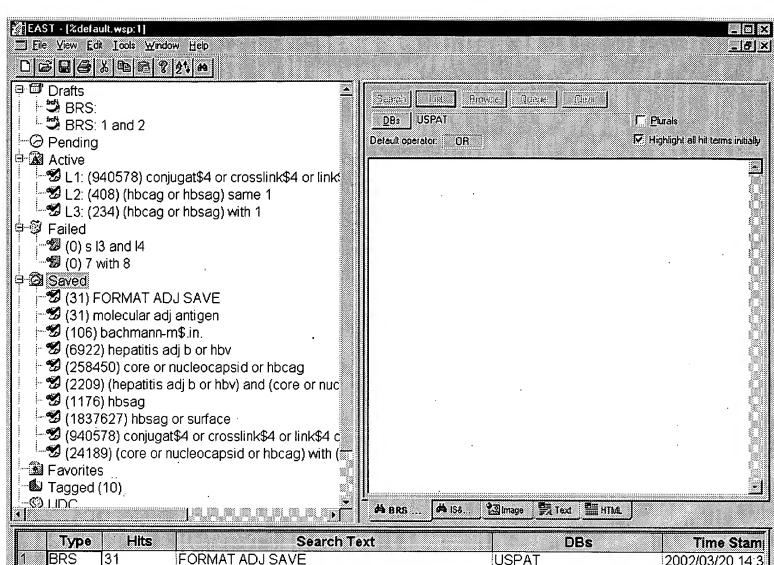


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BRS	L1	940578	conjugat\$4 or crosslink\$4 or link\$4 or bond\$4	USPAT	2003/01/31 13:53	
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BRS	L2	408	(hbcag or hbsag) same 1	USPAT	2003/01/31	
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1	BRS	31	FORMAT ADJ SAVE	USPAT	2002/03/20 14:3
2	BRS	31	molecular adj antigen	EPO; JPO; DERWENT	2003/01/31 13:4
3	BRS	106	bachmann-m\$.in.	EPO; JPO; DERWENT	2003/01/31 13:4
4	BRS	6922	hepatitis adj b or hbv	USPAT	2003/01/31 13:4
5	BRS	258450	core or nucleocapsid or hbcag	USPAT	2003/01/31 13:4
6	BRS	2209	(hepatitis adj b or hbv) and (core or nucleocapsid or hbcag)	USPAT	2003/01/31 13:4
7	BRS	1176	hbsag	USPAT	2003/01/31 13:4
8	BRS	1837627	hbsag or surface	USPAT	2003/01/31 13:5
9	BRS	940578	conjugat\$4 or crosslink\$4 or link\$4 or bond\$4	USPAT	2003/01/31 13:5
10	BRS	24189	(core or nucleocapsid or hbcag) with (conjugat\$4 or crosslink\$4 or link\$4 or bond\$4)	USPAT	2003/01/31 13:5
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1 654: US PAT.FULL._1976-2003/Jan 28
                                                                 13 440: Current Contents Search(R)_1990-2003/Jan 31
                                                                                                    399: CA SEARCH(R)_1967-2003/UD=13805
                                                                                                                                        357: Derwent Biotech Res. __1982-2003/Jan W4
                                                                                                                                                                                                                                                                                                                                                       340: CLAIMS(R)/US Patent_1950-03/Jan 28
                                                                                                                                                                                                                                                                                                                                                                                                                              172: EMBASE Alert_2003/Jan W4
                                                                                                                                                                                                                                                                                                                       342: Derwent Patents Citation Indx_1978-01/200249
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                                                                                                                                                                                                            349. PCT FULLTEXT_1979-2002/UB=20030130,UT=20030123
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                                                                                                                                                                                                                                                  348: EUROPEAN PATENTS_1978-2003/Jan W04
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DIALOG(R)File 5:Biosis Previews(R) (c) 2003 BIOSIS. All rts. reserv.

One or more terms were invalid in 115 files

18 files have one or more items; file list includes 247 files

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removal, customized scheduling. See HELP ALERT
                                                                                                                                                                                                                                                                                          ABSTRACT: A strategically modified hepatitis B core protein is described
                                                                                                                                                                                                                                                                                                                                                                                                                           DOCUMENT TYPE: Patent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM: e-file
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHOR: Birkett Ashley J(a)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (c) 2003 BIOSIS. All rts. reserv.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ? t s1/7/2 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ISSN: 0098-1133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Patents 1246 (3):pNo Pagination May 15, 2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHOR ADDRESS: (a)Solana Beach, CA**USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Strategically modified hepatitis B core proteins and their derivatives
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                                                                                                                                                                                                                                                                                                                                      LANGUAGE: English
                                                                                                                                                                                                                                                                                                                                                                                 RECORD TYPE: Abstract
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protein can also be modified to include a T cell epitope
                                    preparation of vaccines or antibodies. The modified hepatitis B core
                                                                         form a modified nucleocapsid conjugate. Such a conjugate is useful in the
                                                                                                                      nucleocapsid protein particles can be pendently linked to a hapten to
                                                                                                                                                                residue. The modified hepatitis B core protein or its aggregated
                                                                                                                                                                                                     the nucleocapsid protein, containing a chemically reactive amino acid
                                                                                                                                                                                                                                                  where an insert is provided, preferably in an immunodominant region of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 $4.11 Estimated total session cost 1.998 DialUnits
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03879396 INSIDE CONFERENCE ITEM ID: CN040776333
                                                                      EPITOPES OF PLASMODIUM FALCIPARUM CS PROTEIN ELICIT HIGH LEVELS
                                                                                                                                   HEPATITIS B VIRUS CORE ANTIGEN PARTICLES CONTAINING MINIMAL T
                                                                                                                                                                                                 DIALOG(R)File 65:(c) 2003 BLDSC all rts. reserv. All rts. reserv.
    SPECIFIC IMMUNE RESPONSES IN MICE AND NON-HUMAN PRIMATES
                                       OF MALARIA
                                                                                                         AND B CELL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Microbiology Los Angeles, California, USA May 21-25, 2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHOR: Peterson E M(a); Le V(a); Tapia O(a); de la Maza L M(a); Pal S(a);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL: Abstracts of the General Meeting of the American Society for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Immunization of mice with recombinant hepatitis B virus core (HBc) protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ISSN: 1060-2011
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 membrane protein of Chlamydia trachomatis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  File 35:Dissertation Abs Online 1861-2003/Jan
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S20 S21 08593543 95351601 PMID: 7542855 DIALOG(R)File 155:MEDLINE(R) ?ts12/7/11 Alert feature enhanced with customized scheduling. See HELP ALERT. *File 155: Updating of completed records has resumed. See Help News155 File 155:MEDLINE(R) 1966-2003/Jan W4 Department of Molecular Biology, Scripps Research Institute, La Jolla, Milich D R; Peterson D L; Zheng J; Hughes J L; Wirtz R; Schodel F The hepatitis nucleocapsid as a vaccine carrier moiety. \$0.40 Estimated total session cost 0.112 DialUnits \$0.40 Estimated cost this search \$0.01 TELNET \$0.39 Estimated cost File1 Set Items Description 329212 VIRUS OR VIRUSLIKE OR VLP 300136 ANTIGEN 594330 PARTIC? 648188 CHEMICAL? 80977 PRESENTING 12954 S6(W)S3 64911 CONJUGAT? 6640 SI AND S3 107869 COUPLED OR COUPLING OR COUPLE 107300 HEPATITIS OR HBV 1326 SI AND S7 5883 PLATFORM? Items Description 9422 CROSSLINK? 5094 NUCLEOCAPSID? OR HBCAG 718 SI AND S2 47 S11 AND S17 175 S13 AND S16 187 S9 AND S8 43 S13 AND S14 35 S11 AND S22 1 S11 AND S13 AND S22 7 S20 NOT S18 9 S13 AND S19 AND S11 18 S11 AND S10

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Annals of the New York Academy of Sciences (UNITED STATES) May 31 1995 754 p187-201, ISSN 0077-8923 Journal Code: 7506858

Contract/Grant No.: AI 20720; AI; NIAID; AI 33562; AI; NIAID

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

by expressing genes coding for hybrid HBcAg particles in live, avirulent enhanced antibody production. Immunogenicity studies have been extended to positional effects have demonstrated that an internal insertion into a and permit efficient purification of hybrid HBcAg particles. Studies of by antigen presenting cells (APCs). These characteristics suggested that strong T cell responses, and HBcAg is efficiently processed and presented directly activates B cells (i.e., T cell independence), HBcAg elicits sites physically linked to B cell epitopes in order to provide Th cell vaccine strains of Salmonella species. mice. This system has also been exploited for purposes of oral vaccination highly immunogenic and protected 100% of experimentally challenged BALB/c HBcAg at the internal site, and purified hybrid HBcAg/CS particles were a malaria CS repeat sequence derived from P. berghei was inserted into protection against experimental challenge in several systems. For example, dominant HBcAg-specific B cell site represents a superior location for heterologous B cell epitopes at various positions within HBcAg particles have designed bacterial expression vectors that allow insertion of HBcAg as a method to increase immunogenicity with significant success. We epitopes have been chemically linked or fused by recombinant methods to additional Th cell function. Therefore, a number of HBV and non-HBV B cel HBcAg may be an ideal carrier moiety for B cell epitopes requiring provided insight into this enhanced immunogenicity. For example, HBcAg more recently particulate protein antigens have been used for this purpose humans as well as in experimental animal models. Studies in mice have The hepatitis B core antigen represents a highly immunogenic antigen in function for antibody synthesis, is well known. Peptides, proteins, and The "carrier effect," defined as the provision of T cell recognition

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DÍALOG(R)File 155:MEDLINE(R)

A molecular assembly system that renders antigens of choice highly repetitive for induction of protective B cell responses.

Jegerlehner Andrea; Tissot Alain; Lechner Franziska; Sebbel Peter; Erdmann Iris; Kundig Thomas; Bachi Thomas; Storni Tazio; Jennings Gary; Pumpens Paul; Renner Wolfgang A; Bachmann Martin F; et al Cytos Biotechnology AG, CH-8952 Schlieren-Zurich, Switzerland. Vaccine (England) Aug 19 2002, 20 (25-26) p3104-12, ISSN 0264-410X

Journal Code: 8406899

Document type: Journal Article

Languages: ENGLISH

Record type: In Process Main Citation Owner: NLM

system may be used to induce strong B cell responses against most antigens against self-epitopes in the absence of adjuvants. This molecular assembly fashion are shown to induce strong and protective B cell responses even assembly is abrogated. Peptides or protein coupled to VLPs in an oriented immuno-dominant region. By using this approach steric hindrance of capsid formed from the hepatitis B core antigen (HBcAg) containing a lys in the proteins engineered to contain a free cys can be chemically coupled to VLPs particles may be less stable in vivo. Here, we show that peptides and likely because the epitopes are not optimally exposed. In addition, such either the N- or C-terminus of VLPs present fewer assembly problems, the capsid assembly, is rather limited. While peptides genetically fused to peptides capable of being incorporated into VLPs while still permitting immunodominant regions. However, due to steric problems, the size of the may be induced by VLPs that contain peptides inserted in their in the absence of adjuvants. Moreover, epitope-specific antibody responses immune responses obtained against such epitopes are often limited, most Copyright 2002 Elsevier Science Ltd. Record Date Created: 20020806 Virus like particles (VLPs) are known to induce potent B cell responses

DIALOG(R)File 155:MEDLINE(R)

Insertion of foreign epitopes in HBcAg: how to make the chimeric particle

Veremeiko T A; Ilyichev A A Karpenko L I; Ivanisenko V A; Pika I A; Chikaev N A; Eroshkin A M;

karpenko@vector.nsk.su Biotechnology Vector, Koltsovo, Novosibirsk Region, Russia. Institute of Bioengineering, State Research Center of Virology and

Amino acids (AUSTRIA) 2000, 18 (4) p329-37, ISSN 0939-4451

Journal Code: 9200312

Document type: Journal Article

Languages: ENGLISH

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properties of inserts was studied with the help of ProAnalyst, SALIX and correct or incorrect folding of chimeric proteins on physical and chemical not all chimeric proteins are able to be particulated. The dependence of particles can be used as effective artificial immunogenes. Unfortunately, foreign epitopes of various human and animal pathogens. Chimeric HBcAg Hepatitis B core antigen is one of the most promising protein carriers of

> high hydrophobicity, large volume, and high beta-strand index prevent chimeric HBcAg particles have been given. self-assembling chimeric proteins. These factors are most important for the C-termini of inserts. Recommendations for obtaining correct folding of QSARPro computer programs. We have found that insertion of amino acids with

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Core particles of hepatitis B virus as carrier for foreign epitopes

Ulrich R; Nassal M; Meisel H; Kruger D H

0065-3527 Journal Code: 0370441 Advances in virus research (UNITED STATES) 1998, 50 p141-82, ISSN Charite Medical School, Humboldt University, Berlin, Germany

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

structure of chimeric HBcAg that results in a high epitope density per with the intact pathogen were demonstrated. Major factors for the neutralizing antibodies, cytotoxic T cells and protection against challenge B and T cell immune responses against the inserted epitopes. In some cases veterinary use, or even without adjuvants, such chimeric particles induced insertion site. When applied together with adjuvants approved for human and flexible and surface-exposed c/e1 region emerged as the most promising exposure, and is influenced by the route of application. The probably particle formation. The humoral immunogenicity of inserted epitopes is approximately 40 amino acid residues at the N terminus, 50 or 100 amino proteins. The core protein of hepatitis B virus (HBcAg), because of its multimerization capacity, such as particle-forming viral capsid or envelope been used to insert foreign epitopes into proteins with inherent require chemical coupling to high molecular weight carriers or application Salmonella strains may be applicable as live vaccine. its use as subunit vaccine, chimeric HBcAg produced in attenuated particle, and the provision of T cell help by the carrier moiety. Beyond potentiated immune response against the foreign epitopes are the multimeric determined by the immunogenicity of the peptide itself and its surface to 100 or even more residues at the C terminus, did not interfere with acids in the central immunodominant c/e 1 epitope region of HBcAg, and up interest as a potential antigen carrier. Foreign sequences of up to unique structural and immunological properties, has gained widespread together with adjuvants. More recently, recombinant DNA techniques have To be effective as vaccines, most monomeric proteins and peptides either

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\$14.51 Estimated total session cost 3.108 DialUnits
Logoff: level 02.12.40 D 13:01:59 ? log hold \$10.43 Estimated cost File155 31jan03 13:01:59 User208669 Session D2200.2 \$9.59 2.996 DialUnits File155 \$0.00 117 Type(s) in Format 6 \$0.84 4 Type(s) in Format 7 \$0.84 121 Types